

## M 5.4, Guam region

Origin Time: 2020-11-24 00:00:23 UTC (Tue 10:00:23 local)  
Location: 13.7561° N 145.6849° E Depth: 46.5 km

Created: 1 day, 0 hours after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

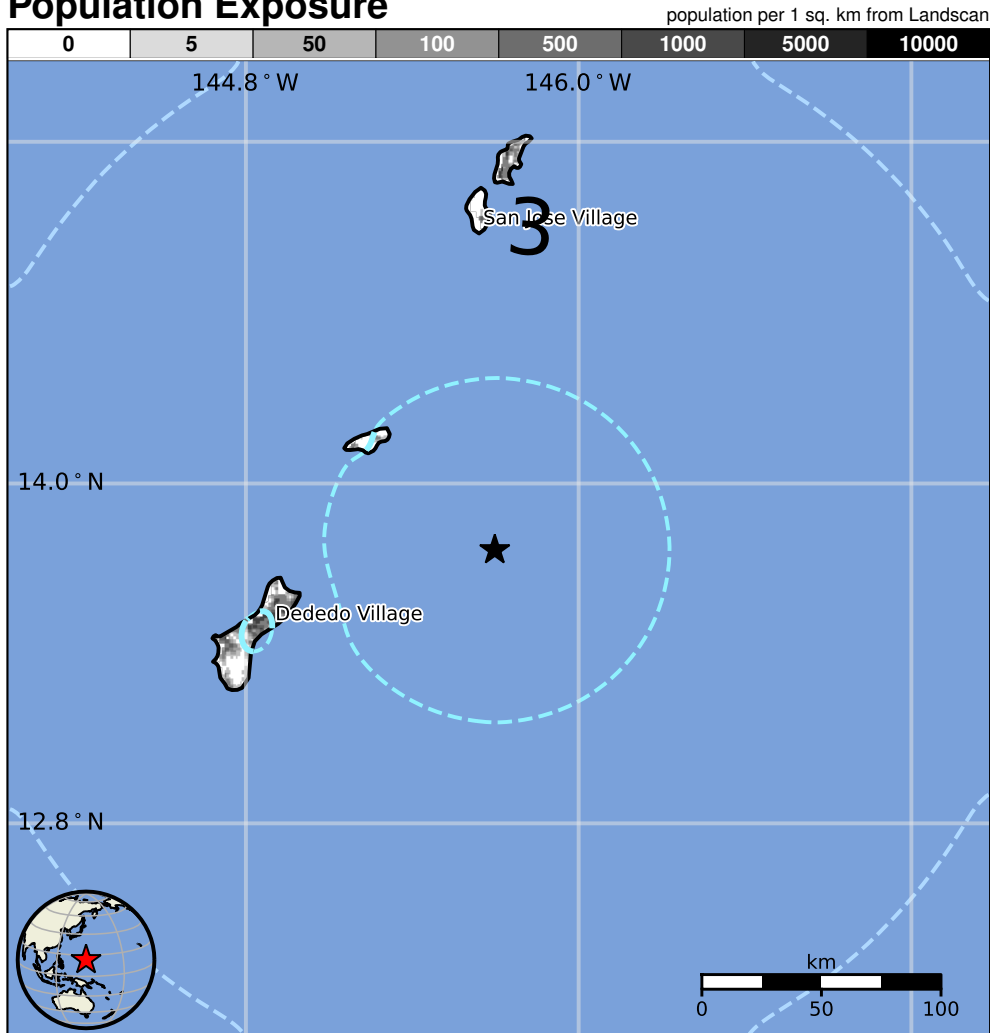


## Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) |                       | —*       | 113k   | 112k  | 0        | 0        | 0           | 0          | 0        | 0        |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY   |                       | I        | II-III | IV    | V        | VI       | VII         | VIII       | IX       | X+       |
| PERCEIVED SHAKING                       |                       | Not felt | Weak   | Light | Moderate | Strong   | Very Strong | Severe     | Violent  | Extreme  |
| POTENTIAL DAMAGE                        | Resistant Structures  | None     | None   | None  | V. Light | Light    | Moderate    | Mod./Heavy | Heavy    | V. Heavy |
|   | Vulnerable Structures | None     | None   | None  | Light    | Moderate | Mod./Heavy  | Heavy      | V. Heavy | V. Heavy |

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

## Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2001-10-12 | 131        | 7.0  | VII(48k)   | 0              |
| 2002-04-26 | 131        | 7.0  | VIII(2k)   | 0              |
| 1993-08-08 | 121        | 7.7  | IX(3k)     | 0              |

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

| MMI       | City                          | Population |
|-----------|-------------------------------|------------|
| IV        | Chalan Pago-Ordot Village     | 7k         |
| IV        | Sinajana Village              | 3k         |
| IV        | Barrigada Village             | 9k         |
| IV        | Agana Heights Village         | 4k         |
| IV        | Mongmong-Toto-Maite Village   | 7k         |
| IV        | Hagatna Village               | 1k         |
| <b>IV</b> | <b>Dededo Village</b>         | <b>45k</b> |
| IV        | Tamuning-Tumon-Harmon Village | 20k        |
| IV        | Mangilao Village              | 15k        |
| III       | Yigo Village                  | 21k        |
| III       | Saipan                        | 48k        |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000crvb#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000crvb